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(54) PIEZOELECTRIC CERAMIC COMPOSITION AND PRODUCTION OF PIEZOELECTRIC RESONATOR USING THE SAME

(57)Abstract:

PURPOSE: To obtain a piezoelectric resonator having small variation in piezoelectricity and resonant frequency in a humidified atmosphere and excellent in thermal shock resistance.

CONSTITUTION: A silver electrode 2 is formed on a piezoelectric ceramic 1 obtained by polarizing a sintered material of a piezoelectric ceramic composition comprising a main component expressed by

$\text{Pb}(\text{Sn}_{1/3}\text{Nb}_{2/3})\text{XTiYZrZrO}_3$

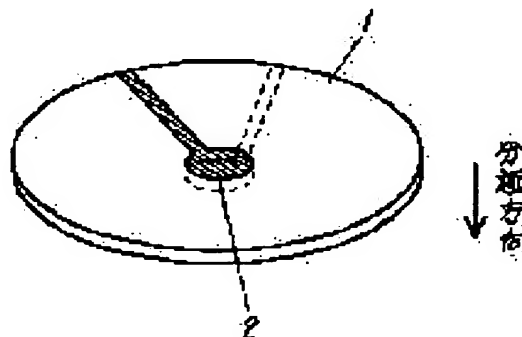
($X=0.01-0.50$, $Y=0.12-0.75$,

$Z=0.125-0.865$; $X+Y+Z=1$) added with

0.5-10.0wt.% of a compound of

$\text{Pb}(\text{Me}_{1/2}\text{Te}_{1/2})\text{O}_3$ (Me is at least one kind of metal selected from the group consisting of Mn, Co, Ni and Cu),

annealing at 0.4-0.8 times of Curie temperature for ≥ 1 hr and holding at a normal temperature for ≥ 48 hr and polishing.



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